

GENERAL WELDING PLANTS
 AUTO REPAIR PLANTS
 SHEET METAL PLANTS
 LEAD BURNING PLANTS
 SOLDERING PLANTS
 DE-CARBONISING PLANTS

PAINT-BURNING PLANTS, Etc.
 FLUXES and FILLER RODS FOR ALL METALS.

MACHINE CUTTERS
 HAND CUTTERS
 BOILER TUBE CUTTERS
 PLATINUM MELTING PLANTS
 MANUFACTURING JEWELLERS
 PLANTS

ANYTHING AND EVERYTHING — for — Oxy-Acetylene Welding and Cutting.

Extensive List of All Metals & Accessories

“Rylax” Welding Rods
 (Soft annealed wire, cut in lengths)
 Class A. B. C. D., for all purposes.

“Armco” Welding Rods
 4 per cent. Nickel Steel. Silver Steel.

Superior Ferre Silicon Rods
 In 3-16, 1-4, 5-16, 3-8, 1-2 inch sizes.

Tobin Bronze Rods

Manganese Bronzes

Brass Rods Brazing Tip

Copper Rods

Phosphorated Copper

Aluminium Alloy

Aluminium Wire

3 & 4 ply Hose

Asbestos Gloves

Acet. Purifying Material

Carbon Blocks

Carbon Compound

Goggles Torch Lighters

Etc. Etc.

“Austox” Plants

are used by all the Leading Engineering
 Establishments, Government Depots,
 Etc. Etc.

“ARNOLD”

Improved

Oxy-
 Acetylene
 Equipment

*Ston
 May 25*



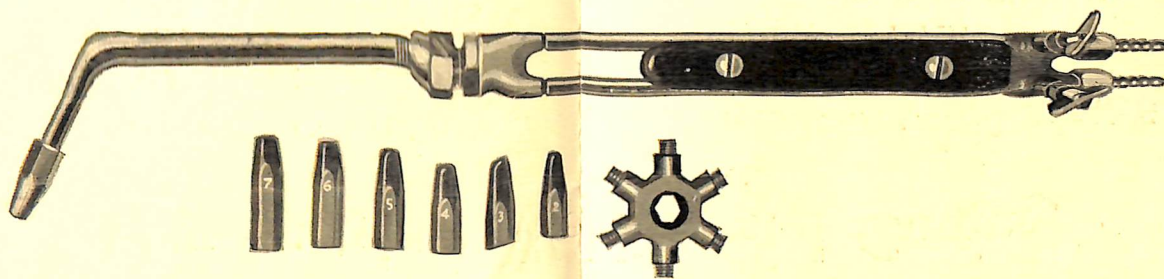
Australian Oxygen & Industrial Gases
 Pty. Ltd.

550-62 LATROBE STREET, MELBOURNE.

Code :- Bentleys,
 “Austoxigen,” Melbourne.

"ARNOLD" WELDING TORCHES

WILL NOT BACKFIRE. ∴ COVER LARGE RANGE OF WORK.
Works on slightly higher Acetylene pressure.



Extensions can be Fitted for large work.

Extra Tips Nos. 8 & 9 for heavy welding.

The "ARNOLD" Welding Torch has been technically designed to produce something better in torch construction. The gases are brought together through holes drilled at such an angle that they are mixed in the exact proportion, and impinge in such way that the acetylene enters the mixing chamber at a slightly higher pressure than the oxygen.

Thus a perfect mixture is obtained at exceedingly low pressures, practically eliminating oxidation, insuring soft and ductile welds. The mixing chamber is removed from heat zone, but away from handle. The gases therefore cannot expand out of proportion nor change the character of the flame and cause decomposition of the gases, which is practically the base of backfires.

Owing to the exceedingly low pressures required to obtain a mixture, and the scientific proportioning of the holes, the "ARNOLD" Torch will positively not backfire, even under the most severe workshop conditions.

Backfires are a dead loss; stoppages, causing loss of time, heat, and extra consumption of gases, etc., are all due to backfires.

The tips are constructed from solid drawn Copper Manganese Alloy; the orifice is scientifically designed, having an expansion chamber which tapers into an accurately drilled outlet, thus ensuring a soft welding flame.

There is a complete range of tips for all classes of work.

The six tips not in use are fitted to a holder, which acts as a spanner, and prevents loss of tips.

The Torch is furnished with a light but strong non-conducting handle, and is also fitted with two needle valves which are screwed with fine threads, enabling the operator to make finer adjustments.

"ARNOLD" WELDING TORCH

APPROXIMATE PRESSURES.

Tip No.	Thickness of Metal	Oxygen Pressure	Acetylene Pressure
1	1-16	5	6
2	3-32	7	8
3	5-32	8	9
4	1-4	11	12
5	3-8	12	13
6	1-2	14	15
7	5-8	14	15

The correct size of tip will depend on conditions that can only be known by the operator. Hence this table is very approximate. The stated pressure or higher, never lower, must be used. Always carry a higher Acetylene pressure.

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